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PEOPLE'S REPUBLIC OF CHINA**

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**Information technology - Telecommunications and information
exchange between systems - Local and metropolitan area networks -
Specific requirements - Frame replication and elimination for reliability**

信息技术 系统间的远程通信和信息交换 局域网和城域网 特定要求 用于可靠性的
帧复制和消除

(English Translation)

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Reference

Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document is equivalent to ISO/IEC/IEEE8802-1CB.2019 "Telecommunications and information exchange between information technology systems Specific requirements for local and metropolitan area networks - Part 1CB. Frame duplication and elimination for reliability.

The following minimal editorial changes have been made to this document.

--- To coordinate with the existing standards, the name of the standard is changed to "Telecommunications and information exchange between information technology systems, local area networks and urban areas" Domain Network Specific Requirements for Frame Duplication and Elimination for Reliability";

---Incorporated ISO/IEC/IEEE8802-1CB.2019/Amd.1.2023, ISO/IEC/IEEE8802-1CB.2019/the amendments to Amd.2.2023 are marked with a vertical double line (|) on the outer margins of the clauses involved.

1.1 Scope

This document specifies the procedures, management objects, and protocols used to provide for the identification and management of redundantly transmitted data packets for bridges and end systems.

Identification and elimination of duplicate and redundant packets. Does not involve creating multiple paths for transmitting copies.

This document is applicable to the research, development and design of time-sensitive network products.

1.2 Basic Principles

Frame Replication and Elimination for Reliability (FRER) is used to increase the probability of a given data frame being delivered.

When FRER is used on a fixed path in a specific topology and when protecting against congestion loss, FRER can greatly reduce the probability of data frame loss due to equipment failure.